SECTION 1: Identification

1.1. Product identifier
Product form : Mixture
Product name : Antivapor-G

1.2. Recommended use and restrictions on use
For use in sulphuric acid pickling solutions.

1.3. Supplier
SOPRIN S.r.l.
Via dell’Industria 106
31052 Maserada Sul Piave (TV) - Italy
T (+39) 0422 521025 - F (+39) 0422 521060
soprin@soprin.it (Alessandro Padovan)

1.4. Emergency telephone number
Emergency number : CHEMTREC 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Classification (GHS-US/CAN)
Carcinogenicity Category 1A  H350
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements
GHS-US/CAN labeling
Hazard pictograms :  
Signal word : Danger
Hazard statements : H350 - May cause cancer
Precautionary statements : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308+P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US/CAN)
No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-CA)</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>(CAS No) 7664-93-9</td>
<td>0.2</td>
<td>Met. Corr. 1, H290</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 2 (Inhalation), H330</td>
<td>Acute Tox. 2 (Inhalation),</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>HINOC 1, HINOC</td>
<td>H330</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1, H314</td>
<td>Skin Corr. 1, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 1A, H350</td>
<td>Carc. 1A, H350</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures
First-aid measures after inhalation : Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

First-aid measures after skin contact : Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
First-aid measures after eye contact: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

First-aid measures after ingestion: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorized by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: None anticipated under normal product handling conditions.

Symptoms/injuries after skin contact: None anticipated under normal product handling conditions.

Symptoms/injuries after eye contact: None anticipated under normal product handling conditions.

Symptoms/injuries after ingestion: None anticipated under normal product handling conditions.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide, foam, powder and water spray.

5.2. Special hazards arising from the substance or mixture

Fire hazard: None.

Explosion hazard: None known.

5.3. Advice for firefighters

Firefighting instructions: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Protection during firefighting: Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Block the leakage if there is no hazard. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Stop the flow of material, if this is without risk.

Methods for cleaning up: Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Sulfuric acid (7664-93-9)</th>
<th>ACGIH TWA (mg/m³)</th>
<th>0.2 mg/m³ (thoracic particulate matter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA - ACGIH</td>
<td></td>
<td>0.2 mg/m³ (thoracic particulate matter)</td>
</tr>
<tr>
<td>USA - OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>VECD (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Canada (Quebec)</td>
<td>VEMP (mg/m³)</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Alberta</td>
<td>OEL STEL (mg/m³)</td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>
Antivapor-G
Safety Data Sheet

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL STEL (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL STEL (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL STEL (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
<td>OEL STEL (mg/m³)</td>
<td>OEL TWA (mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 mg/m³</td>
<td>0.2 mg/m³ (thoracic, contained in strong inorganic acid mists)</td>
<td>0.2 mg/m³ (thoracic particulate matter)</td>
<td>3 mg/m³</td>
<td>1 mg/m³</td>
<td>0.2 mg/m³ (thoracic particulate matter)</td>
<td>0.2 mg/m³ (thoracic particulate matter)</td>
<td>0.2 mg/m³ (thoracic fraction)</td>
<td>0.6 mg/m³ (thoracic fraction)</td>
<td>0.2 mg/m³ (thoracic fraction)</td>
<td>0.6 mg/m³ (thoracic fraction, strong acid mists only)</td>
<td>0.2 mg/m³ (thoracic fraction, strong acid mists only)</td>
<td>0.2 mg/m³ (thoracic)</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection: Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.
Eye protection: Wear protective airtight goggles.
Skin and body protection: Wear suitable working clothes.
Respiratory protection: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Dark brown.
- Odour: Natural essences
- Odour threshold: No data available
- pH: > 2.1
- Relative evaporation rate (butylacetate=1): No data available
- Melting point: No data available
- Freezing point: < -5 °C
- Boiling point: No data available
- Flash point: > 100 °C
- Self ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): No data available
- Vapour pressure: No data available
- Relative vapour density at 20 °C: No data available
- Relative density: 1005 kg/m³
- Solubility: Soluble in water
- Log Pow: No data available
- Log Kow: No data available
- Viscosity, kinematic: No data available
- Viscosity, dynamic: No data available
- Explosive properties: No data available
- Oxidising properties: No data available
- Explosive limits: No data available

9.2. Other information

No additional information available
SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available.

10.2. Chemical stability
The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions
Will not occur.

10.4. Conditions to avoid
None.

10.5. Incompatible materials
Amines, Bases.

10.6. Hazardous decomposition products
Flammable substances, reducing substances, basic substances, metals, organic substances and water.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

**Sulfuric acid (7664-93-9)**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2140 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat</td>
<td>510 mg/m³ (Exposure time: 2 h)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified (pH: > 2.1)
Serious eye damage/irritation: Not classified (pH: > 2.1)
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: May cause cancer.

**Sulfuric acid (7664-93-9)**

<table>
<thead>
<tr>
<th>IARC group</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Carcinogenic to humans</td>
</tr>
</tbody>
</table>

Reproductive toxicity: Not classified
Specific target organ toxicity – single exposure: Not classified
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity
Aquatic acute: Not classified
Aquatic chronic: Not classified

**Sulfuric acid (7664-93-9)**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>(no bioaccumulation)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available.

12.3. Bioaccumulative potential

**Sulfuric acid (7664-93-9)**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>(no bioaccumulation)</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available.

12.5. Other adverse effects
Ozone: Not classified
### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

#### 14.1. Basic shipping description

In accordance with TDG

TDG

Not regulated for transport

#### 14.2. Transport information/DOT

DOT

Not regulated for transport

#### 14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

### SECTION 15: Regulatory information

#### 15.1. Canada National regulations

Sulfuric acid (7664-93-9)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. US Federal regulations

Sulfuric acid (7664-93-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

<table>
<thead>
<tr>
<th>SARA Section 302 Threshold Planning Quantity (TPQ)</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA Section 313 - Emission Reporting</td>
<td>1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)</td>
</tr>
</tbody>
</table>

#### 15.3. US State regulations

Sulfuric acid (7664-93-9)

- U.S. - Massachusetts - Right To Know List
- U.S. - Minnesota - Hazardous Substance List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Full text of H-phrases:

- **H290** May be corrosive to metals
- **H314** Causes severe skin burns and eye damage
- **H318** Causes serious eye damage
- **H330** Fatal if inhaled
- **H331** Toxic if inhaled
- **H350** May cause cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.